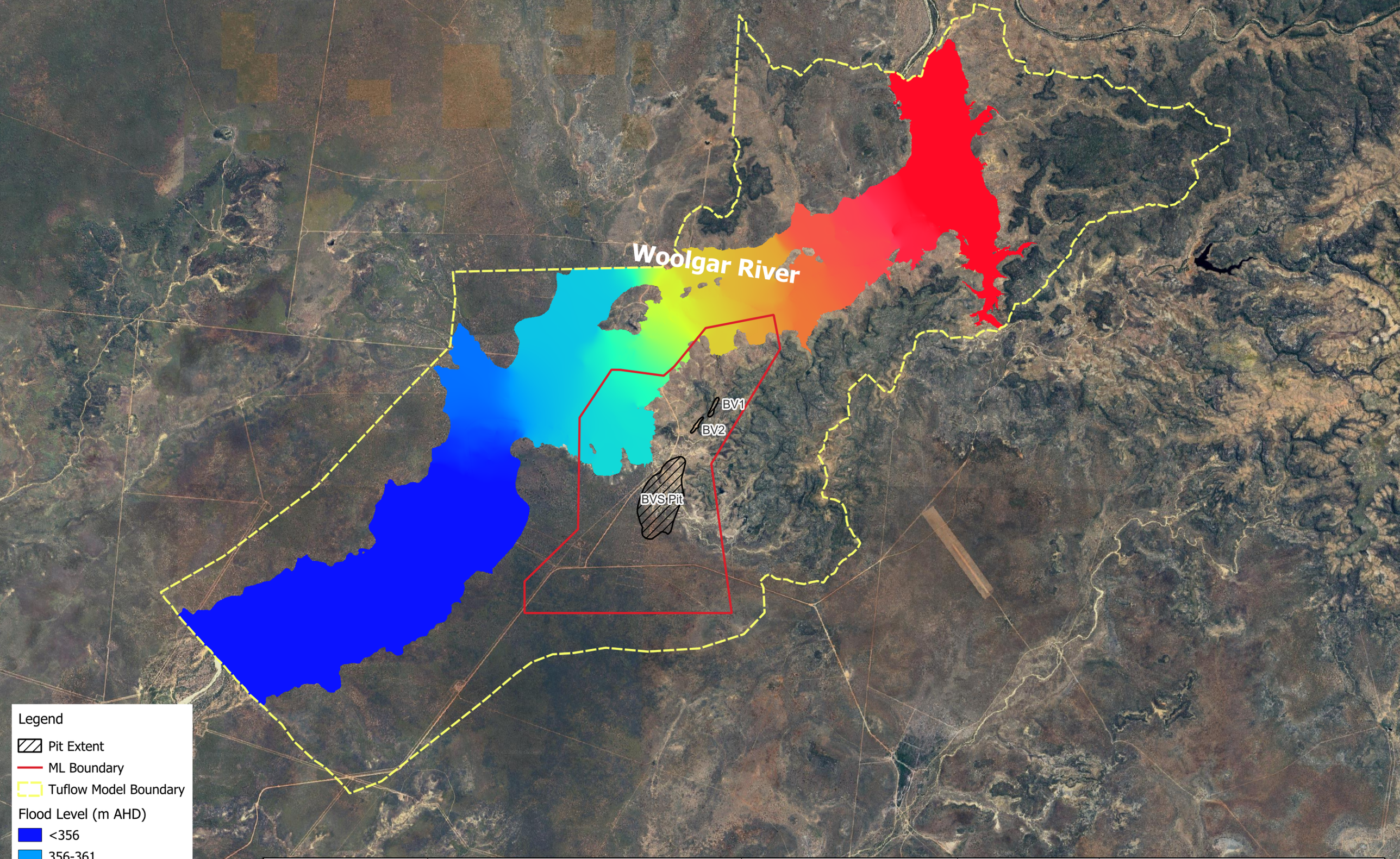


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0 1,900 3,800

Scale in metres (1:77,000 @ A3)

Map Projection: Tranverse Mercator
Horizontal Datum: Geocentric Datum of Australia
Vertical Datum: Australia Height Datum
Grid: Map Grid of Australia, Zone 54

		STRATEGIC MINERALS CORPORATION
DATE	28/5/2026	Big Vein South Gold Project Regional Flood Assessment
DRAWN	SS	PMF Flood Level
JOB NO.	BNE00504_0004	
A3	Figure 3.4	1

Woolgar River

BV1

BV2

BVS Pit

Legend

- Pit Extent
- ML Boundary
- Tuflow Model Boundary

Flood Depth (m)

- 0 - 0.3
- 0.3 - 0.6
- 0.6 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 5.0
- >5

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0 1,900 3,800

Scale in metres (1:77,000 @ A3)

Map Projection: Tranverse Mercator
Horizontal Datum: Geocentric Datum of Australia
Vertical Datum: Australia Height Datum
Grid: Map Grid of Australia, Zone 54

		STRATEGIC MINERALS CORPORATION
DATE	12/6/2026	Big Vein South Gold Project Regional Flood Assessment
DRAWN	SS	PMF Flood Depth
JOB NO.	BNE00504_0004	
A3	Figure 3.5	1

4. CONCLUSIONS

Baseline (pre-mining) flood modelling was undertaken for the Woolgar River adjacent to the proposed BVS Project in accordance with flood modelling methodologies detailed in Australian Rainfall and Runoff 2019. The Woolgar River is the only watercourse in the immediate vicinity of the Project (several smaller drainage features flow through the Project area towards the Woolgar River). The baseline flood modelling was performed for the 0.1% AEP and PMF flood events and included adjustments to represent the "Current and near term (2021 to 2040) – SSP3-7.0" climate scenario in accordance with Australian Rainfall and Runoff Version 4.2.

The baseline flood mapping indicates the three proposed open cut pits (BVS Pit, BV1 Pit and BV2 Pit) that will remain as voids post closure, will be located outside of the baseline (pre-mining) floodplain of the Woolgar River for the 0.1% AEP and PMF flood events.

5. REFERENCES

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6. QUALIFICATIONS

(a) In preparing this document, including all relevant calculation and modelling, Engeny Australia Pty Ltd (Engeny) has exercised the degree of skill, care and diligence normally exercised by members of the engineering profession and has acted in accordance with accepted practices of engineering principles.

(b) Engeny has used reasonable endeavours to inform itself of the parameters and requirements of the project and has taken reasonable steps to ensure that the works and document is as accurate and comprehensive as possible given the information upon which it has been based including information that may have been provided or obtained by any third party or external sources which has not been independently verified.

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(g) This Report does not provide legal advice.

APPENDIX A: FIGURE SHOWING FLOOD PLAIN EXTENT FOR DRAINAGE FEATURE 1

WOOLGAR RIVER

Drainage Line 3

Northern Waste Rock Dump

BV1 Pit

BV2 Pit

Drainage Line 3

Drainage Line 1

Drainage Line 2

Central Waste Rock Dump

Drainage Line 1

Southern Waste Rock Dump

LEGEND

- Levee Alignment
- Baseline Woolgar River Flood Extent
- Model Boundary

Peak Flood Depth (m)

- < 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- > 3.0

PRCP Final Landform
Elevation (m AHD)

- 390
- 360

R	DETAILS	DATE
1	Final Issue	10-06-2026

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This drawing is confidential and shall only be used for the purpose of this project.

DRAWN	ET	CHECKED	AV
APPROVED	AV	DATE	10-06-2026

NOTES:

N

0 100 200 m

SCALE - 1:14,500
GDA94 / MGA zone 54

DISCLAIMER
Engeny has endeavoured to ensure accuracy and completeness of the data. Engeny assumes no legal liability or responsibility for any decisions or actions resulting from the information contained within this map.

DATA SOURCE
QLD Government Open Data Source

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Figure A.5

Big Vein South Gold Project
0.1% AEP Flood Extents

Drg Ref.
BNE00504-0004-BVS-A5-01

S:\01_Projects\BNE\BNE00504 Strategic Minerals Corporation\BNE00504_0004 BVS DETSI IR Flooding\05 Design\QGIS\Workspaces\BNE00504_0004-WOR-001-A-BVS_Tuflow_Model.qgz

APPENDIX B: BASELINE WATER QUALITY RESULTS

BVS Water Quality Results

SampleID	Sample Date	pH Value	Electrical Conductivity @ 25°C	Suspended Solids (SS)	Total Dissolved Solids (SS)	Turbidity	Sulfate as SO4 - Turbidimetric	Aluminium	Arsenic	Cobalt	Copper	Manganese	Uranium	Zinc	Nitrate as N
SW3	9/04/2018	7.73	210		130	5.7	4.1	0.020	<0.001		<0.001	0.020		<0.004	<0.01
SW9	9/04/2018	6.69	206		140	56.0	<0.01	0.020	<0.001		<0.001	0.660		0.010	<0.01
SW2	10/04/2018	7.44	187		110	2.3	3.7	<0.005	<0.001		<0.001	<0.001		<0.004	<0.01
SW1	11/04/2018	7.54	185		120	2.9	3.6	0.010	<0.001		<0.001	0.050		<0.004	<0.01
SW1	11/04/2018	6.95	228		150	8.9	2.2	0.010	<0.001		<0.001	0.290		<0.004	<0.01
SW10	11/04/2018	7.62	115		120	150.0	<0.01	1.070	<0.001		<0.001	0.020		<0.004	<0.01
SW9	11/04/2018	6.67	217		140	64.0	<0.01	<0.005	<0.001		<0.001	1.830		<0.004	<0.01
SW3	24/04/2019	7.45	267	<5	174	1.7	7	<0.01	<0.001	<0.001	<0.001	0.299	<0.001	<0.005	<0.01
SW4	24/04/2019	6.85	277	<5	180	2.8	9	<0.01	0.001	0.003	<0.001	0.873	<0.001	0.005	<0.01
SW1	25/04/2019	7.08	218	14	142	7.9	5	0.010	0.001	0.001	<0.001	0.310	<0.001	<0.005	<0.01
SW5	25/04/2019	7.21	231	155	150	1690.0	<1	0.070	0.004	0.004	0.004	1.210	0.001	<0.005	<0.01
SW6	25/04/2019	6.85	78	55	51	40.4	<1	0.090	<0.001	<0.001	0.002	0.161	<0.001	<0.005	<0.01
SW12	26/04/2019	6.41	50	<5	32	0.8	<1	0.060	<0.001	<0.001	<0.001	0.002	<0.001	0.030	<0.01
SW1	27/04/2019	7.05	228		150	4.7	2.8	0.011	0.001		<0.0005	0.350		<0.004	<0.01
SW2	27/04/2019	7.10	178		120	1.5	5.4	<0.005	0.001		<0.0005	0.140		<0.004	<0.01
SW3	27/04/2019	7.13	280		170	2.7	8.4	<0.005	0.001		<0.0005	1.000		<0.004	<0.01
SW3	5/03/2020	7.45	167	12		6.5	6								0.02
SW3	5/03/2020	7.56	160	46		54.4	6								0.02
SW7	5/03/2020	6.85	91	156		194.0	<1								0.15
SW8	5/03/2020	7.45	144	16		65.5	2								0.21
SW3	14/03/2020	7.68	472	7		23.9	6								0.02
SW3	14/03/2020	7.23	83	17		108.0	2								0.05
SW3	14/03/2020	7.67	141	8		11.3	4								0.01
SW3	12/02/2021	6.62	127	24		42.8	4								0.68
SW3	12/02/2021	6.49	284	168		174	<1								<0.01
SW3	12/02/2021	6.76	92	616		1060	2								0.02
SW7	12/02/2021	6.32	32	12		61.7	<1								0.1
SW3	24/02/2021	6.81	102	98		88.4	<1								<0.01
SW3	24/02/2021	6.7	74	30		66	<1								0.24
SW3	24/02/2021	6.37	50	99		165	<1								0.18
SW3	24/02/2021	6.57	85	89		157	<1								<0.01
SW3	24/02/2021	6.6	115	117		86.5	<1								<0.01
SW3	24/02/2021	7.13	144	36		52.9	3								0.28
SW3	24/02/2021														
SW7	24/02/2021	7.37	47	60		205	<1								<0.01
SW3	28/04/2021	7.63	115	<5		58.1	2								0.02
SW3	28/04/2021	6.9	60	15		106	<1								0.08
SW3	28/04/2021	6.61	32	736		347	<1								0.02
SW3	28/04/2021	7.11	141	<5		6.8	2								0.06
SW2	30/04/2021														
SW3	2/02/2022	7.11	168	462	365	581	3	<0.01	0.002	0.006	<0.001	1.06	<0.001	<0.005	<0.01
SW3	2/02/2022	6.82	49	122	194	322	1	0.23	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	6.93
SW3	2/02/2022	6.9	102	1460	190	270	2	0.03	<0.001	<0.001	0.002	0.097	<0.001	<0.005	0.03
SW3	2/02/2022	7.4	121	24	325	57	2	0.04	<0.001	<0.001	0.001	0.004	<0.001	<0.005	0.08

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